



## A BIBLIOGRAPHY FOR THE NORTH AMERICAN BREEDING BIRD SURVEY



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*(Link to the North American Breeding Bird Survey)*

*(Link to the North American Breeding Bird Survey Results and Analysis)*

### **Introduction**

### **Breeding Bird Survey Publications and Related Topics**

## **INTRODUCTION**

The North American Breeding Bird Survey (BBS) was initiated in 1966 to monitor the status and trends of the continent's avifauna. Surveys were limited to eastern North America during the first year, and by 1968, routes had been established across the continental U.S. and Canadian provinces. The BBS was extended into Alaska and the northern Canadian territories during the early 1980s. Approximately 4000 active surveys routes are currently established in the U.S. and Canada.

Since its inception, the main emphasis of the BBS has been to provide information on the distribution and trends of all bird species that are regularly encountered on these surveys. However, these data have also been used for various other purposes. For example, BBS data have been instrumental in the development of methods to estimate population trends from survey data, while some of the potential biases associated with survey data have been explored through the use of the BBS data set. As this database has grown during the past 32 years, the potential uses for it have also expanded. Questions concerning landscape ecology and community ecology at large geographic scales are being addressed with BBS data, and the potential for future research opportunities remains fertile.

This bibliography summarizes the published literature related to the BBS. It includes articles based solely on BBS data as well as references using various data sources where BBS data are integral components of the publication. Literature sources where BBS data are minor components of the published information, such as many breeding bird atlases, have not been included although a separate listing of these sources may be developed at a later date. This bibliography was derived primarily from professional journals and from regional and state periodicals devoted to birds, but does not include newsletters from local bird clubs. A few theses and dissertations have been included where BBS data or methodology have been the main emphasis of the research, but this list is undoubtedly incomplete. A few government publications and similar “gray literature” sources are included, but such references are difficult to locate and many others have likely been missed. We recognize that this bibliography is probably incomplete, and encourage the authors of published articles using BBS data to inform us of literature sources that have been overlooked. Our intention is to make this bibliography as inclusive as possible, and to provide updates on an annual basis.

Key words are provided to assist in searching this bibliography. Very general terms such as “breeding bird survey” or “birds” are not helpful for this specialized bibliography and have been avoided. Where key words or phrases are provided in the references, these words have also been used in this bibliography. However, the majority of references lacked key words and we have used the following terms to denote the major themes of references related to the BBS:

*Geographic Range: for references using BBS data as a source of distributional information for species*

*Survey Overview: general articles about the BBS and the history of the survey*

*Survey Methods: sources that discuss the methodology specific to the BBS. Literature sources that provide general information about point-count methodology have been excluded*

*Analytical Methods: articles discussing the development of trend estimation procedures that have been applied to BBS data*

*Population Trends: references summarizing the trends estimated for a single species or group of species*

*State Summary: sources that have summarized the activities of the BBS within a single state or province/territory in Canada. These references may have summarized population trends, distributional data, and/or general information about survey activities.*

*Regional Summary: sources summarizing BBS data over multiple states/provinces/territories*

*Guild Summary: summaries of BBS data for groups of species with similar traits (e.g. Neotropical migrants, grassland birds, cavity-nesting birds, etc...)*

*Additionally, a small number of papers dealing with topics including observer bias, roadside bias, community ecology, landscape ecology, and population ecology use those terms as key words.*

*We acknowledge the valuable assistance of Lynda J. Garrett and Wanda Manning, librarians at the USGS Patuxent Wildlife Research Center, who conducted several computerized searches of the literature and located a number of the more obscure references. Connie Downes assisted in identifying BBS-related publications in Canada, while William Carter and Hugh Kingery provided information about literature sources in their states.*

## **Breeding Bird Survey Publications and Related Topics**

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**Anderson, R.** 1969. Breeding Bird Survey in Missouri. *Bluebird* 36:23-24. **Key Words:** state summary;

**Arcese, P., and V.M. Bauldry.** 1997. Corroboration of the North American Breeding Bird Survey for Eastern Bluebirds. *North American Bird Bander* 22:169-172. **Key Words:** population trends; Eastern Bluebird; *Sialia sialis*; counts; survey methods;

**Askins, R.A.** 1993. Population trends in grassland, shrubland, and forest birds in eastern North America. Pages 1-34 in D.M. Power, ed. *Current Ornithology*, Vol. 11. Plenum Press, New York. **Key Words:** guild summary; regional summary; population trends; bird-habitat relations; Neotropical migrants; short-distance migrants;

**Askins, R.A., J.F. Lynch, and R.S. Greenberg.** 1990. Population declines in migratory birds in eastern North America. Pages 1-57 in D.M. Power, ed. *Current Ornithology*, Vol. 7. Plenum Press, New York. **Key Words:** population trends; regional summary; guild summary; Neotropical migrants; woodland birds; forest fragmentation; bird-habitat relations;

**Baker, B.W.** 1977. An analysis of the Breeding Bird Survey in northwestern California. M.S. thesis, Humboldt State Univ., Arcata, CA. **Key Words:** survey methods; regional summary;

**Barker, R.J., and J.R. Sauer.** 1992. Modelling population change from time series data. Pages 182-194 in D.R. McCullough and R.H. Barrett, eds. *Wildlife 2001: populations*. Elsevier, Amsterdam. **Key Words:** analytical methods; route regression; counts; population trends;

**Bart, J., and S.P. Klosiewski.** 1989. Use of presence-absence to measure changes in avian density. *Jour. Wildl. Manage.* 53:847-852. **Key Words:** analytical methods; presence-absence data; population trends; counts; frequency of occurrence;

**Bart, J., and J.D. Schoultz.** 1984. Reliability of singing bird surveys: changes in observer efficiency with avian density. *Auk* 101:307-318. **Key Words:** observer bias; count efficiency; relative abundance; presence-absence data; population trends;

**Bart, J., M. Hofschien, and B.G. Peterjohn.** 1995. Reliability of the Breeding Bird Survey: effects of restricting surveys to roads. *Auk* 112:758-761. **Key Words:** roadside bias; satellite imagery analysis; Ohio; forest cover changes; land cover classification;

**Baumgartner, A.M., and W.A. Carter.** 1968. Breeding Bird Survey in Oklahoma. *Scissortail* 18:48-49. **Key Words:** state summary;

**Bedell, P.A.** 1996. Evidence of dual breeding ranges for the Sedge Wren in the central Great Plains. *Wilson Bull.* 108:115-122. **Key Words:** geographic range; summer movements; *Cistothorus platensis*; Nebraska;

**Boarman, W.I., and K.H. Berry.** 1995. Common Ravens in the southwestern United States, 1968-92. Pages 73-75 in E.T. LaRoe, G.S. Farris, C.E. Puckett, P.D. Doran, and M.J. Mac, eds. *Our living resources: a report to the nation on the distribution, abundance and health of U.S. plants, animals, and ecosystems*. USDOI, National Biological Service, Washington, D.C. **Key Words:** population trends; *Corvus corax*; southwestern deserts;

**Bock, C., and L.W. Lephien.** 1975. Patterns of bird species diversity revealed by Christmas counts versus Breeding Bird Surveys. *West. Birds* 6:95-100. **Key Words:** community ecology; species diversity; winter diversity; Christmas Bird Counts; species-climate relations;

**Böhning-Gaese, K., M.L. Taper, and J.H. Brown.** 1993. Are declines in North American insectivorous songbirds due to causes on the breeding range? *Conservation Biology* 7:76-86. **Key Words:** population trends; guild summary; Neotropical migrants; predation vulnerability;

cowbird parasitism;

**Böhning-Gaese, K., M.L. Taper, and J.H. Brown.** 1994. Avian community dynamics are discordant in space and time. *Oikos* 70:121-126. **Key Words:** community ecology; population trends; insectivorous songbirds; regional population dynamics;

**Boulinier, T., J.D. Nichols, J.R. Sauer, J.E. Hines, and K.H. Pollock.** 1998. Estimating species richness: the importance of heterogeneity in species detectability. *Ecology* 79: 1018-1028. **Key Words:** community ecology; species richness; detectability; capture-recapture; heterogeneity;

**Boulinier, T., J.D. Nichols, J.E. Hines, J.R. Sauer, C.H. Flather, and K.H. Pollock.** 1998. Higher temporal variability of forest breeding bird communities in fragmented landscapes. *Proc. Natl. Acad. Sci.* 95: 7497-7501. **Key Words:** community ecology; forest fragmentation; landscape ecology; species richness; forest bird communities; avian community stability;

**Brauning, D.** 1994. Population trends of Pennsylvania's nesting birds: a response. *Pennsylvania Birds* 8:66-67. **Key Words:** state summary; Pennsylvania; population trends; Neotropical migrants;

**Brauning, D., M.C. Brittingham, D.A. Gross, R.C. Leberman, T.L. Master, and R.S. Mulvihill.** 1994. Pennsylvania breeding birds of special concern: a listing rationale and status update. *Jour. Pennsylvania Acad. Sci.* 68:3-28. **Key Words:** population trends; state summary; conservation status;

**Brown, J.H., D.W. Mehlman, and G.C. Stevens.** 1995. Spatial variation in abundance. *Ecology* 76:2028-2043. **Key Words:** community ecology; distribution; biogeography; conservation biology; population dynamics;

**Buck, D.** 1970. Five year report: Breeding Bird Survey in northern Indiana. *Indiana Audubon Quart.* 48:115-117. **Key Words:** state summary;

**Bystrak, D., and C.S. Robbins.** 1977. Bird population trends detected by the North American Breeding Bird Survey. *Pol. Ecol. Stud.* 3:131-143. **Key Words:** population trends; regional summary;

**Bystrak, D.** 1979. The Breeding Bird Survey. *Sialia* 1:74-79. **Key Words:** survey overview;

**Bystrak, D.** 1980. The Breeding Bird Survey. *Atlantic Nat.* 33:25-28. **Key Words:** survey overview;

**Bystrak, D.** 1980. Application of miniroutes to bird population studies. Maryland Birdlife 36:131-138. **Key Words:** survey methods; relative abundance; geographic patterns of distribution;

**Bystrak, D.** 1981. The North American Breeding Bird Survey. Pages 34-41 in C.J. Ralph and J.M. Scott, eds. Estimating numbers of terrestrial birds. Studies in Avian Biology No. 6. **Key Words:** survey overview;

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**Carter, W.A.** 1975. USFWS Breeding Bird Survey--1975 report. Scissortail 25:72-74. **Key Words:** state summary; Oklahoma;

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**Castrale, J.S.** 1985. Endangered and threatened birds of Indiana: population information from Breeding Bird Surveys. Indiana Audubon Quart. 63:134-147. **Key Words:** state summary; population trends;

**Clark, R.G., P.J. Weatherhead, and R.D. Titman.** 1983. On the relationship between breeding bird survey counts and estimates of male density in the Red-winged Blackbird. Wilson Bull. 95:453-459. **Key Words:** survey methods; density estimates; counts; sampling precision; *Agelaius phoeniceus*; Québec;

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ICBP Tech. Publ. No. 6. Cambridge, UK. **Key Words:** woodland birds; community ecology; northern hardwood forests; population trends; bird-habitat relations;

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**Downes, C.M., and E. Dunn.** 1994. Population trends from the Breeding Bird Survey. *Picoides* 7:18-20. **Key Words:** population trends; Canada; regional analysis;

**Downes, C.M., and B.T. Collins.** 1996. The Canadian Breeding Bird Survey, 1966-1994. Can. Wildl. Serv. Prog. Notes No. 210. 36 pp. **Key Words:** population trends; Canada; regional analysis;

**Droege, S. and J.R. Sauer.** 1989. North American Breeding Bird Survey annual summary, 1988. USDOI, Fish and Wildlife Service, Biological Report 89(13). 16 pp. **Key Words:** population trends; guild summary; regional summary;

**Droege, S.** 1990. The North American Breeding Bird Survey. Pages 1-4 in J.R. Sauer and S. Droege, eds. Survey designs and statistical methods for the estimation of avian population trends. USDOI, Fish and Wildlife Service, Biological Rep. 90(1). **Key Words:** survey overview;

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**Erskine, A.J.** 1974. Status of breeding bird census work in Canada: A brief summary. *Acta Ornith.* 14:166-168. **Key Words:** survey overview;

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**Erskine, A.J.** 1977. The co-operative Breeding Bird Survey in Canada, 1976. *Can. Wildl. Serv. Prog. Notes* No. 74. **Key Words:** population trends; Canada; regional analysis;

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**Erskine, A.J.** 1979. Estimates of species populations from census and atlas data. Pages 254-

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**Evans, K.E., and D.K. Dawson.** 1976. The Breeding Bird Survey in Missouri: 1967 to 1975. Bluebird 43:12-22. **Key Words:** state summary;

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**Freemark, K.E., C.R. Cooper, G.H. Finney, and A.J. Erskine.** 1979. The co-operative Breeding Bird Survey in Canada, 1978. *Can. Wildl. Serv. Rep. Ser.* 42. 61 p. **Key Words:** population trends; Canada; regional analysis;

**Fuller, M.R., D. Bystrak, C.S. Robbins, and R.M. Patterson.** 1987. Trends in American Kestral counts from the North American Breeding Bird Survey. *Raptor Res. Rep.* 6:22-27. **Key Words:** population trends; *Falco sparverius*;

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